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TITLE: Current carrying connection element for high
temperature superconductor
thin film in resistive current limitation device for switch
gear - has high
temperature superconductive tapes with curved cross-section
adapted to spacing
of plate conductors of thin films

INVENTOR: STELZER, A

PATENT-ASSIGNEE: SIEMENS AG[SIEI]

PRIORITY-DATA: 1999DE-1028324 (June 16, 1999)

PATENT-FAMILY:

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: DE 19928324A

BASIC-ABSTRACT: The current carrying connection elements electrically connect at least two plate conductors. The plate conductors have electrical contact surfaces for current supply lines. The current connection elements are formed by high temperature superconductive tapes. The tapes are electrically connected to high temperature superconductor thin films via a force- or material-based connection.

The high temperature superconductive tapes have a curved cross-section adapted to the spacing of the plate conductors of thin films to be connected to each other.

USE - Switch equipment for electrical power supply and distribution.

ADVANTAGE - Connection elements are improved w.r.t. undesired heating of coolant, so that they can be used in high current current-limiting devices.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS:

CURRENT CARRY CONNECT ELEMENT HIGH TEMPERATURE
SUPERCONDUCTING THIN FILM

RESISTOR CURRENT LIMIT DEVICE SWITCH GEAR HIGH TEMPERATURE
SUPERCONDUCTING TAPE

CURVE CROSS SECTION ADAPT SPACE PLATE CONDUCTOR THIN FILM

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